



SEQUENCE LISTING

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WJS

(1) GENERAL INFORMATION

<110> (i) Applicants: Wolfe, M. Michael
Tseng, Chi-Chuan
Neville, Linda

<120> (ii) Title: *Specific Antagonists for Glucose-Dependent Insulinotropic Polypeptide (GIP)*

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<151> Prior Filing Date: 12/03/96

<160> (iii) No. of SEQ ID NOS: 14

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(C) Operating System: PC-DOS/MS-DOS
(D) Software: Windows 98/Word Perfect 6.1

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<170> Software: Windows 98/Word Perfect 6.1

(2) SEQUENCE INFORMATION

<210> SEQ ID NO:1:

(i) Sequence Characteristics:

- (A) Length: 30 amino acids
(B) Type: amino acid
(D) Topology: linear

(ii) Molecule Type: polypeptide

(xi) Sequence Description: SEQ ID NO:1:

Tyr	Ala	Glu	Gly	Thr	Phe	Ile	Ser	Asp	Tyr
1				5					10
Ser	Ile	Ala	Met	Asp	Lys	Ile	His	Gln	Gln
				15					20
Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln	Lys
				25					30

<210> SEQ ID NO:2:

(i) Sequence Characteristics:

- (A) Length: 24 amino acids
(B) Type: amino acid
(D) Topology: linear

(ii) Molecule Type: polypeptide

(xi) Sequence Description: SEQ ID NO:2:

Ile	Ser	Asp	Tyr	Ser	Ile	Ala	Met	Asp	Lys
1				5					10
Ile	His	Gln	Gln	Asp	Phe	Val	Asn	Trp	Leu
				15					20
Leu	Ala	Gln		Lys					
				24					

<210> SEQ ID NO:3:

- (i) Sequence Characteristics:
 - (A) Length: 15 amino acids
 - (B) Type: amino acid
 - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:3:

Lys	Ile	His	Gln	Gln	Asp	Phe	Val	Asn	Trp
1				5					10
Leu	Leu	Ala	Gln	Lys					
				15					

<210> SEQ ID NO:4:

- (i) Sequence Characteristics:
 - (A) Length: 9 amino acids
 - (B) Type: amino acid
 - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:4:

Ile	Ser	Asp	Tyr	Ser	Ile	Ala	Met	Asp
1				5				9

<210> SEQ ID NO:5:

- (i) Sequence Characteristics:
 - (A) Length: 21 amino acids
 - (B) Type: amino acid
 - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:5:

Tyr	Ser	Ile	Ala	Met	Asp	Lys	Ile	His	Gln
1				5					10
Gln	Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln
				15					20
Lys									
21									

<210> SEQ ID NO:6:

- (i) Sequence Characteristics:
 - (A) Length: 3 amino acids
 - (B) Type: amino acid
 - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:6:

Ile	Ser	Asp
1		3

<210> SEQ ID NO:7:

- (i) Sequence Characteristics:
(A) Length: 30 amino acids
(B) Type: amino acid
(D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:7:

Tyr	Ala	Glu	Gly	Thr	Phe	Ile	Ser	Asp	Tyr
1				5					10
Ser	Ile	Ala	Met	Asp	Lys	Ile	Arg	Gln	Gln
				15					20
Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln	Lys
				25					30

<210> SEQ ID NO:8:

- (i) Sequence Characteristics:
(A) Length: 24 amino acids
(B) Type: amino acid
(D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:8:

Ile	Ser	Asp	Tyr	Ser	Ile	Ala	Met	Asp	Lys
1				5					10
Ile	Arg	Gln	Gln	Asp	Phe	Val	Asn	Trp	Leu
				15					20
Leu	Ala	Gln	Lys						

<210> SEQ ID NO:9:

- (i) Sequence Characteristics:
 (A) Length: 15 amino acids
 (B) Type: amino acid
 (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:9:

Lys	Ile	Arg	Gln	Gln	Asp	Phe	Val	Asn	Trp
1				5					10
Leu	Leu	Ala	Gln	Lys					
				15					

<210> SEQ ID NO:10:

- (i) Sequence Characteristics:
 (A) Length: 21 amino acids
 (B) Type: amino acid
 (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:10:

Tyr	Ser	Ile	Ala	Met	Asp	Lys	Ile	Arg	Gln
1				5					10
Gln	Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln
				15					20
Lys									
21									

<210> SEQ ID NO:11:

- (i) Sequence Characteristics:
(A) Length: 42 amino acids
(B) Type: amino acid
(D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:11:

Tyr	Ala	Glu	Gly	Thr	Phe	Ile	Ser	Asp	Tyr
1				5					10
Ser	Ile	Ala	Met	Asp	Lys	Ile	His	Gln	Gln
				15					20
Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln	Lys
				25					30
Gly	Lys	Lys	Asn	Asp	Trp	Lys	His	Asn	Ile
				35					40
Thr		Gln							
		42							

<210> SEQ ID NO:12:

- (i) Sequence Characteristics:
(A) Length: 42 amino acids
(B) Type: amino acid
(D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:12:

Tyr	Ala	Glu	Gly	Thr	Phe	Ile	Ser	Asp	Tyr
1				5					10
Ser	Ile	Ala	Met	Asp	Lys	Ile	Arg	Gln	Gln
				15					20
Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln	Lys
				25					30
Gly	Lys	Lys	Asn	Asp	Trp	Lys	His	Asn	Ile
				35					40
Thr		Gln							
		42							

<210> SEQ ID NO:13:

- (i) Sequence Characteristics:
 - (A) Length: 10 amino acids
 - (B) Type: amino acid
 - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:13:

Asp	Phe	Val	Asn	Trp	Leu	Leu	Ala	Gln	Lys
				5					0

<210> SEQ ID NO:14:

- (i) Sequence Characteristics:
 - (A) Length: 14 amino acids
 - (B) Type: amino acid
 - (D) Topology: linear
- (ii) Molecule Type: polypeptide
- (xi) Sequence Description: SEQ ID NO:14:

Gly	Lys	Lys	Asn	Asp 5	Trp	Lys	His	Asn	Ile 10
Thr	Gln	Arg	Glu						
				44					

(3) PUBLICATIONS

<300> Publication 1:

<301> Authors: Takeda, Jun
Seino, Yutaka
Tanaka, Ken-Ichi
Fukumoto, Hirofumi
Toshiaki, Kayano
Takahashi, Haruo
Masayasu, Kurono
Suzuki, Takashi
Tobe, Takayoshi
Imura, Hiroo

<302> Title: *Sequence of an Intestinal cDNA Encoding Human Gastric Inhibitory Polypeptide Precursor*

<303> Journal: Proc. Natl. Acad. Sci. USA

<304> Volume: B84

<305> Issue:

<306> Pages: 7005 - 7008

<307> Date: 1987 October

<300> Publication 2:

<301> Authors: Tseng, Chi-Chuan
Jarobe, Linda A.

Landau, Steven B.
Williams, Erin K.
Wolfe, M. Michael

<302> Title: *Glucose-Dependent Insulintropic Peptide: Structure of the Precursor and Tissue-Specific Expression in Rat*

<303> Journal: Proc. Natl. Acad. Sci. USA

<304> Volume: B90

<305> Issue:

<306> Pages: 1992 - 1996

<307> Date: 1993 March

<300> Publication 3:

<301> Authors: Bonner, T.I.
Usdin, T.B.

<302> Title: Genbank Accesion No.U39231

<307> Date: 1995

<300> Publication 4:

<301> Authors: Jornvall, Hans
Carlquist, Mats
Kwauk, Sam
Otte, Susan C.
McIntosh, Christopher, H.S.
Brown, John C.
Mutt, Viktor

<302> Title: *Amino Acid Sequence and Heterogeneity of gastric Inhibitory Polypeptide (GIP)*

<303> Journal: FEBS LETTERS
<304> Volume: 123
<305> Issue: 2
<306> Pages: 2-5 - 210
<307> Date: 1981 January